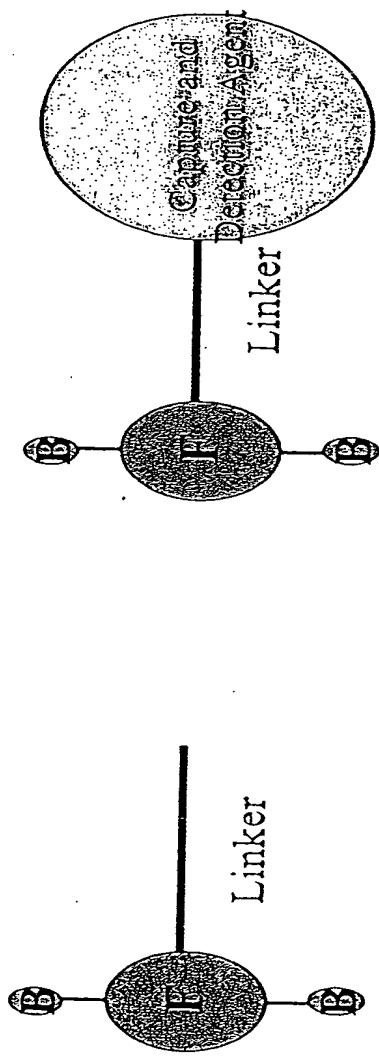


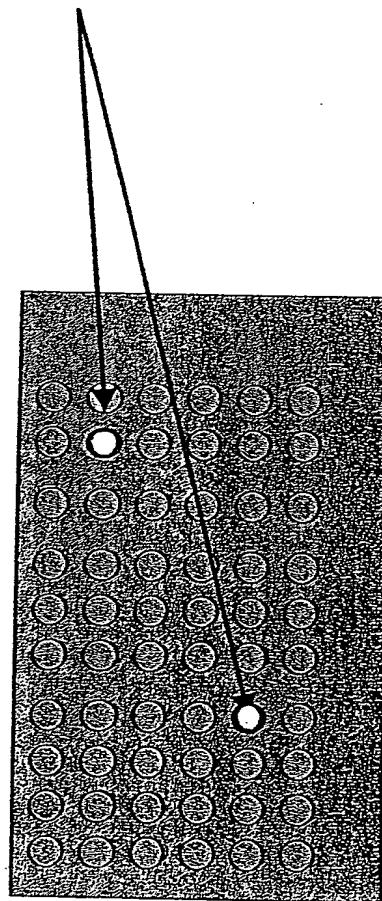


## High-throughput Target ID



## Library of Bioactive Compounds

## Library of Target ID Compounds



Use corresponding activity-based probe to identify the biological target

FIGURE 1

PyS $\Delta$  PyS MeS MeS $\Delta$

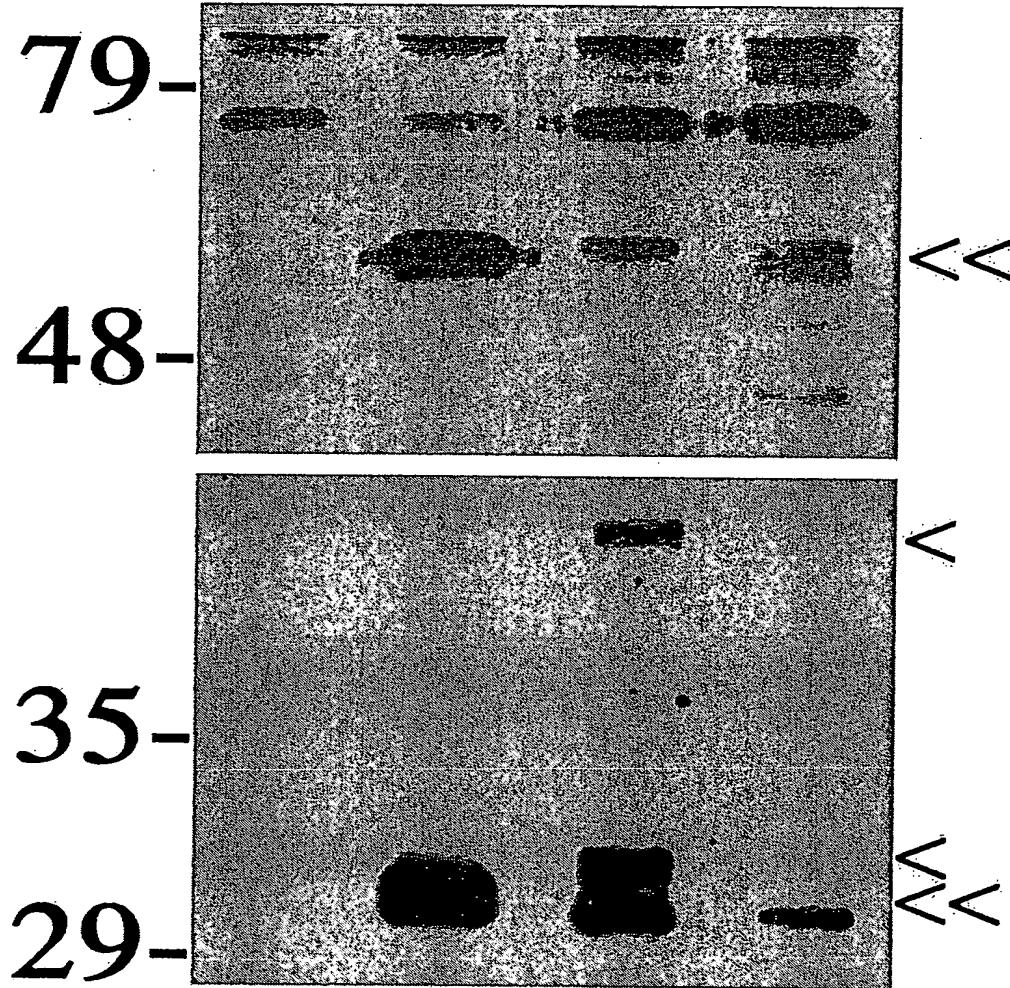
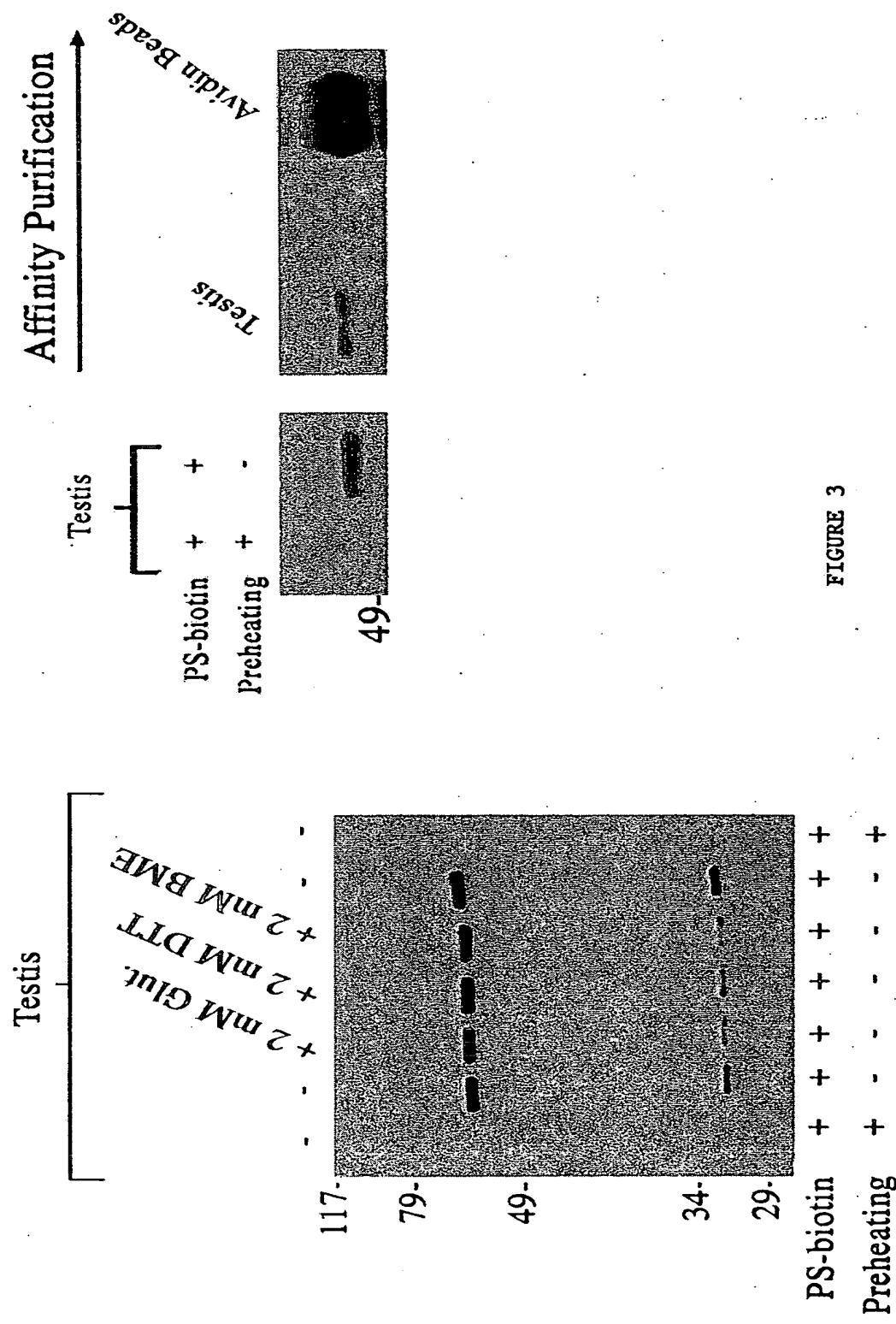


FIGURE 2

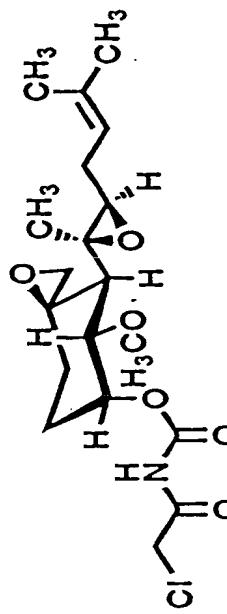


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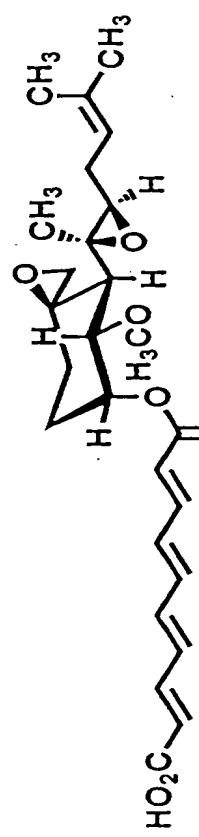




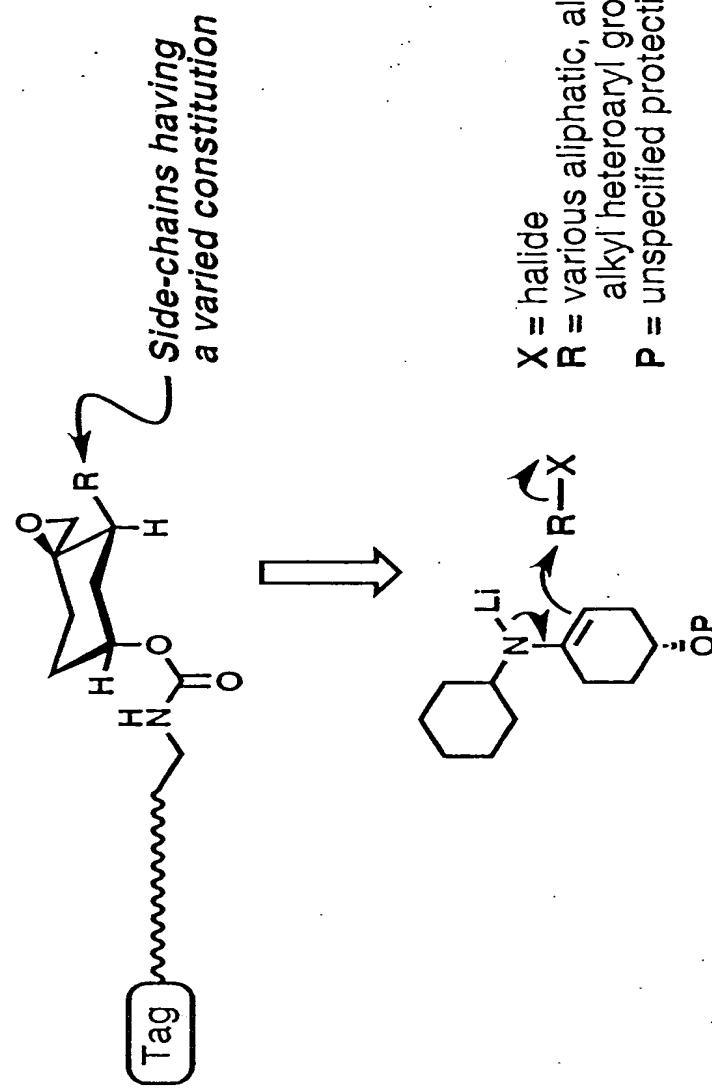
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TNP-470



Fumagillin



$X$  = halide  
 $R$  = various aliphatic, alicyclic, alkyl aryl, or  
 alkyl heteroaryl groups  
 $P$  = unspecified protecting group

FIGURE 4A

O I P E  
JAN 12 2004  
PATENT & TRADEMARK OFFICE  
U.S.A.

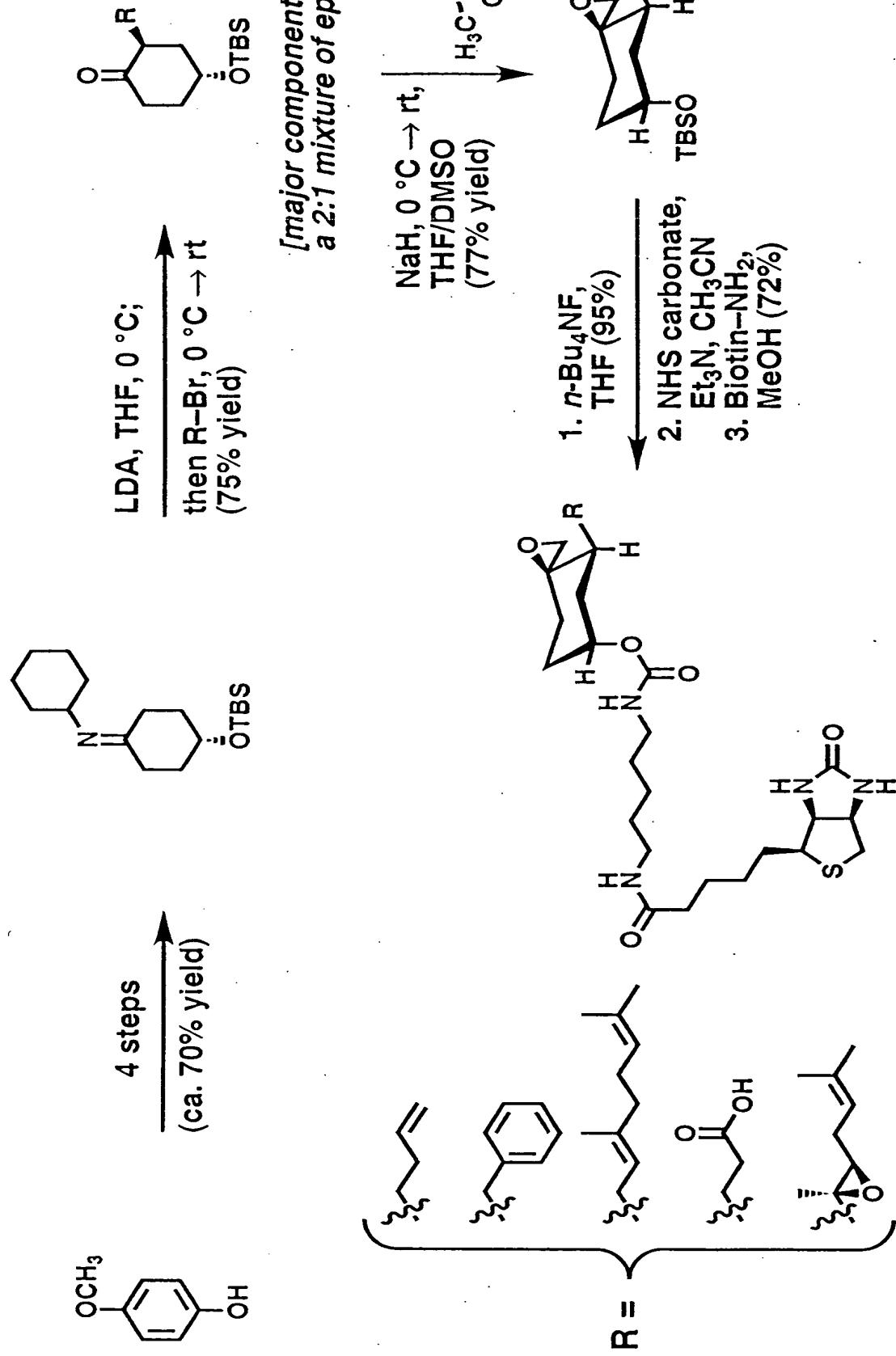
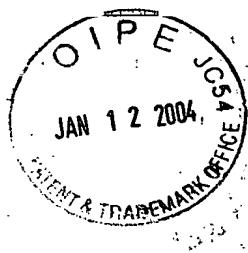


FIGURE 4B



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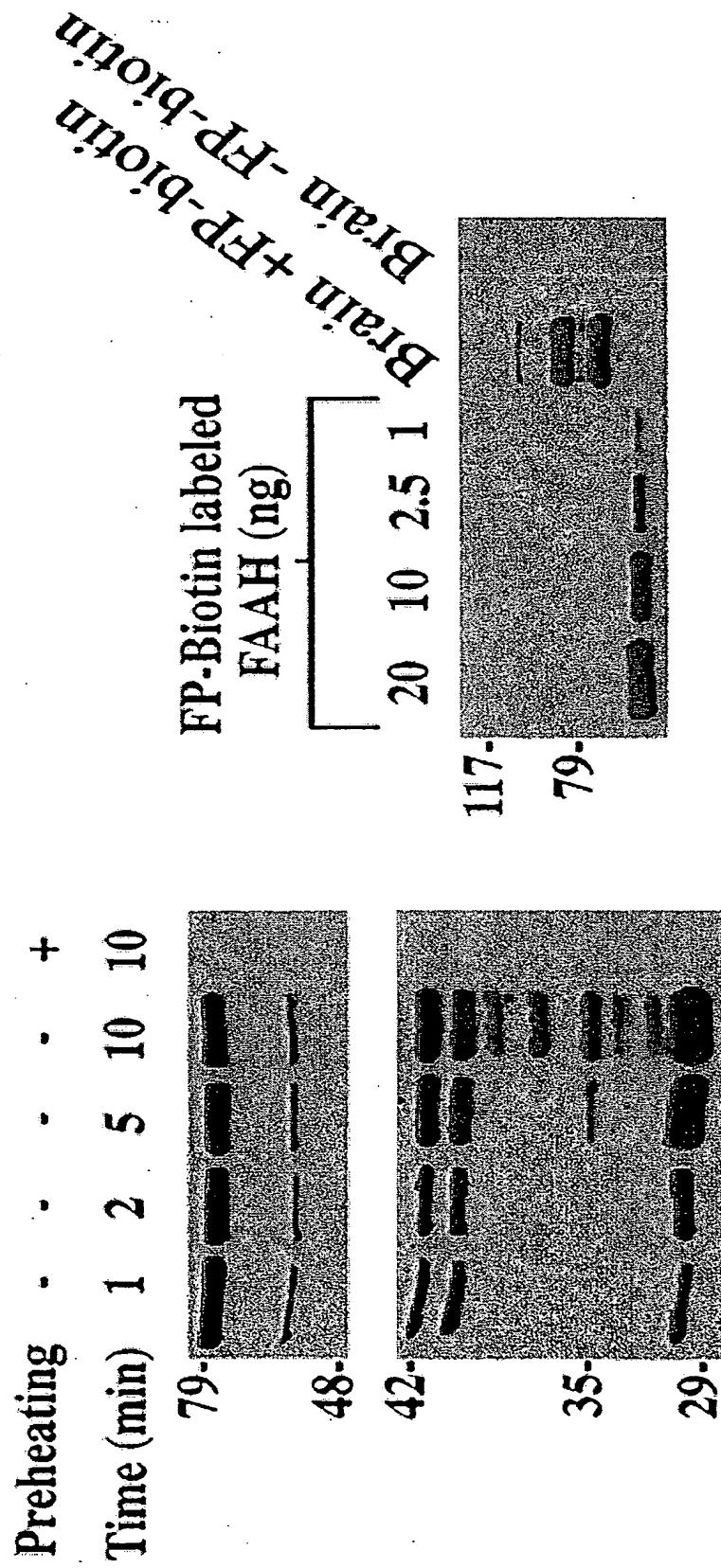


FIGURE 5

O I P E JCS  
JAN 12 2004  
PATENT & TRADEMARK OFFICE

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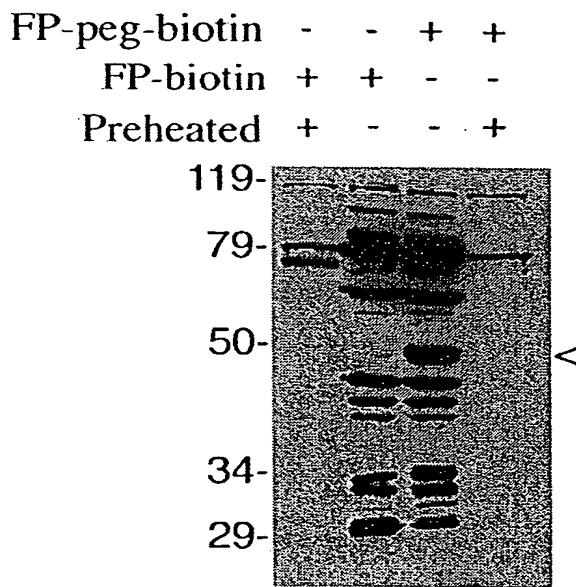
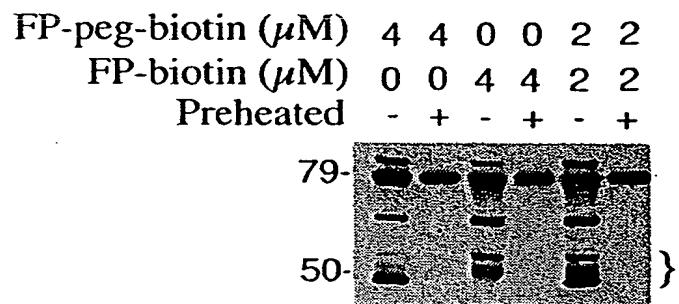


FIGURE 6

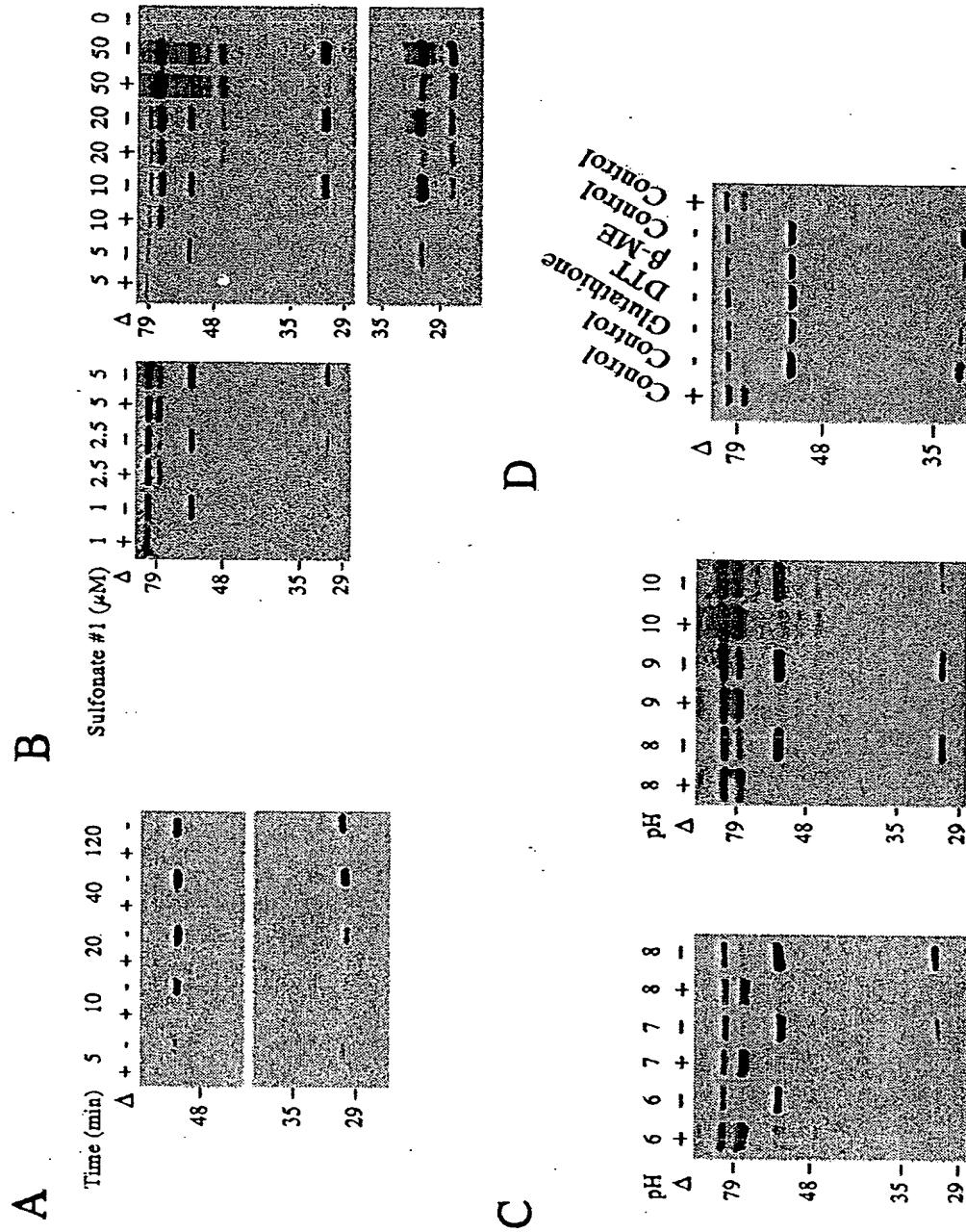


FIGURE 7.



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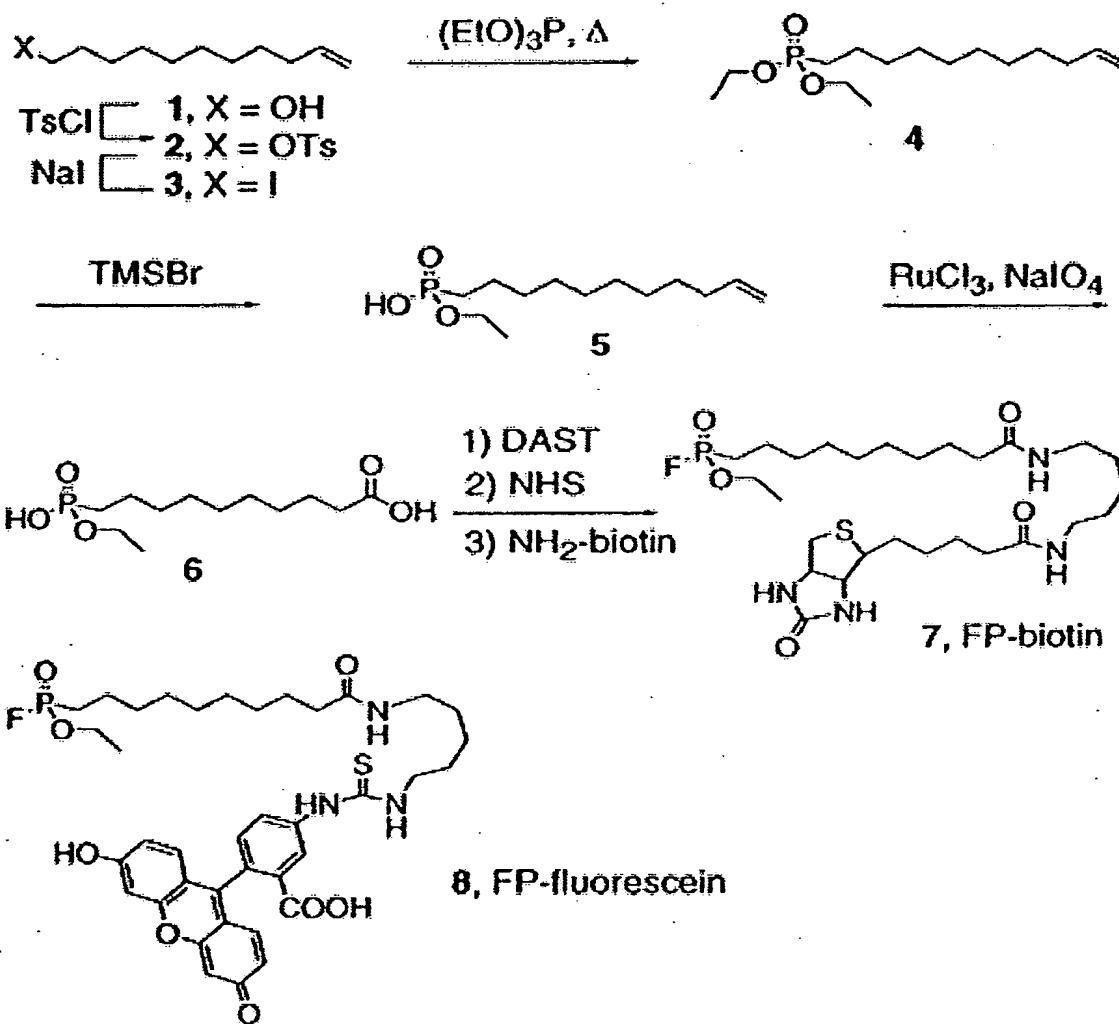


FIGURE 8



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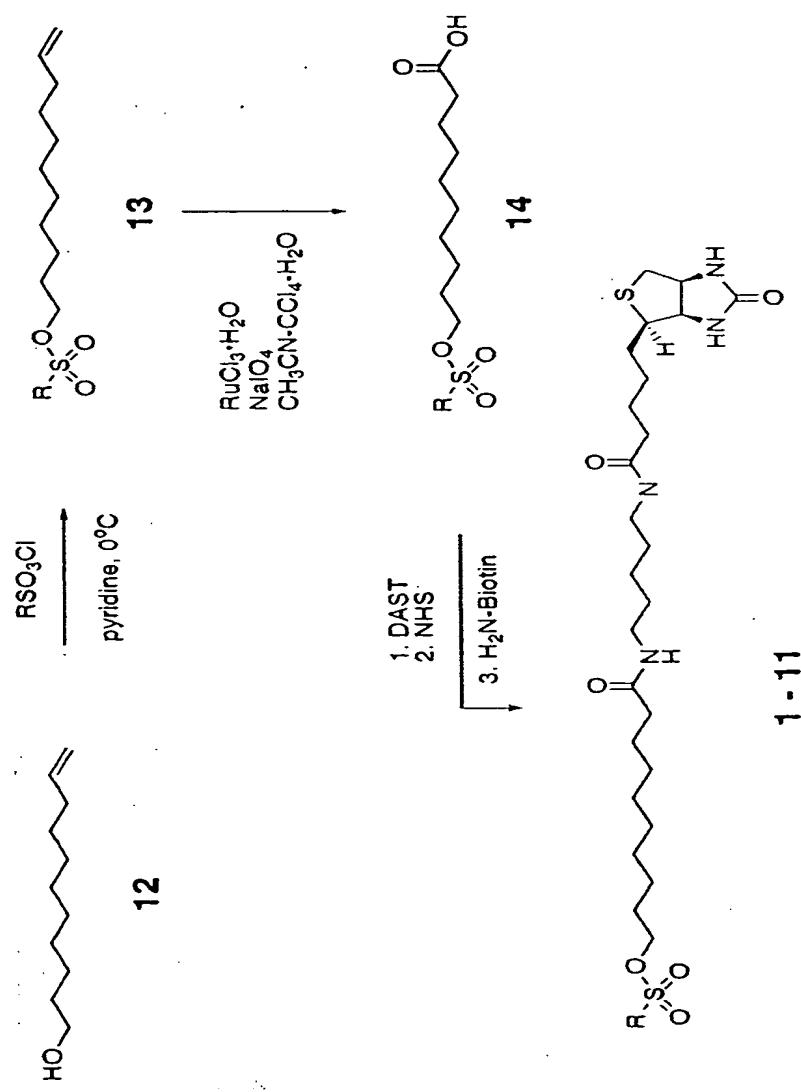
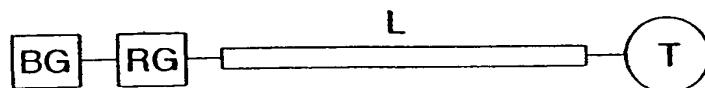


FIGURE 9



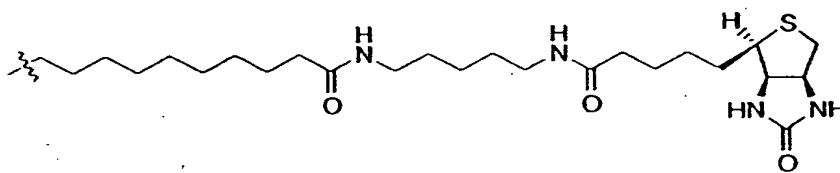
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A.

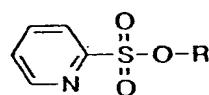


B.

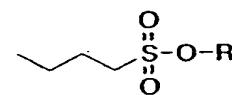
$R =$



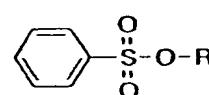
1



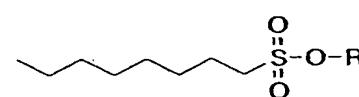
6



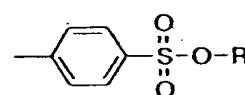
2



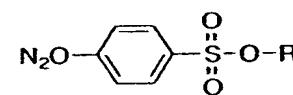
7



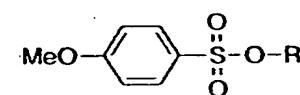
3



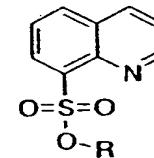
8



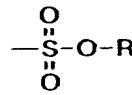
4



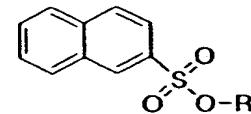
9



5



10



11

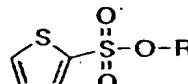
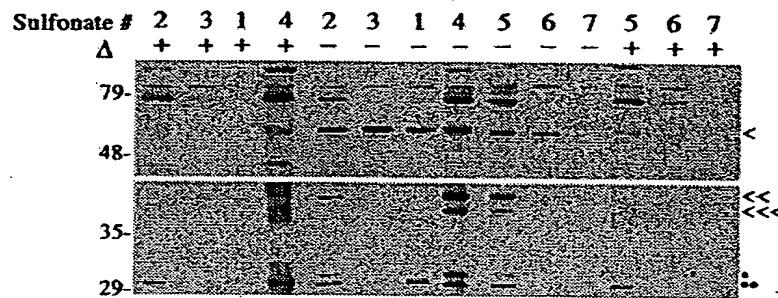


FIGURE 10

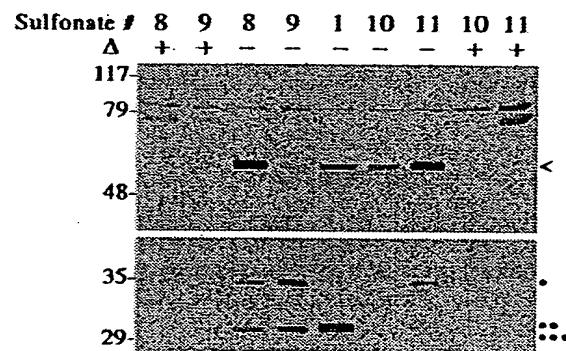


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**A**



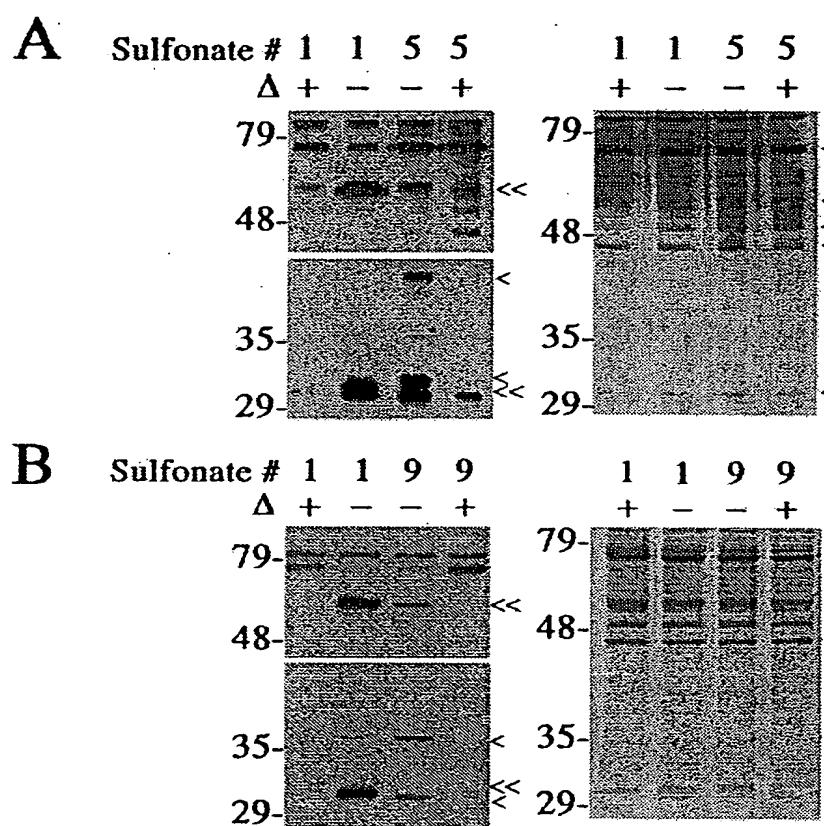
**B**



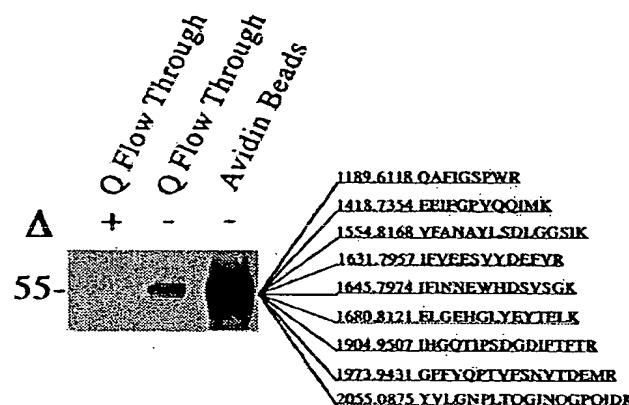
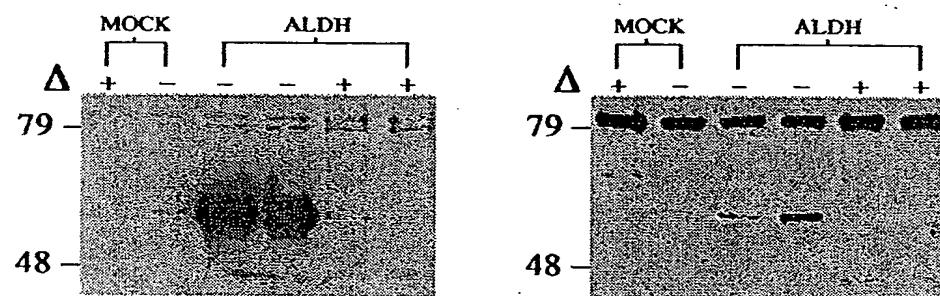
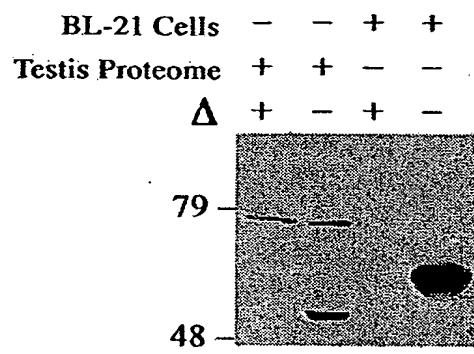
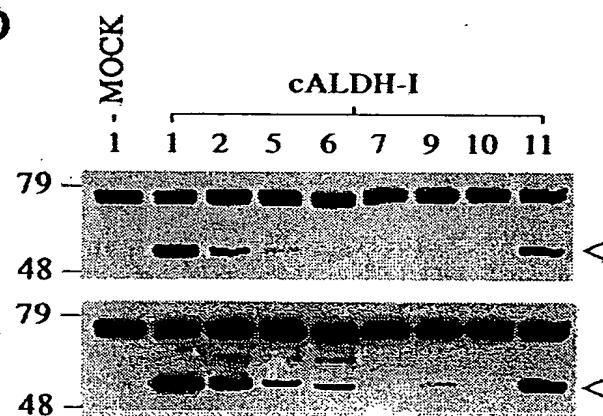
**FIGURE 11**



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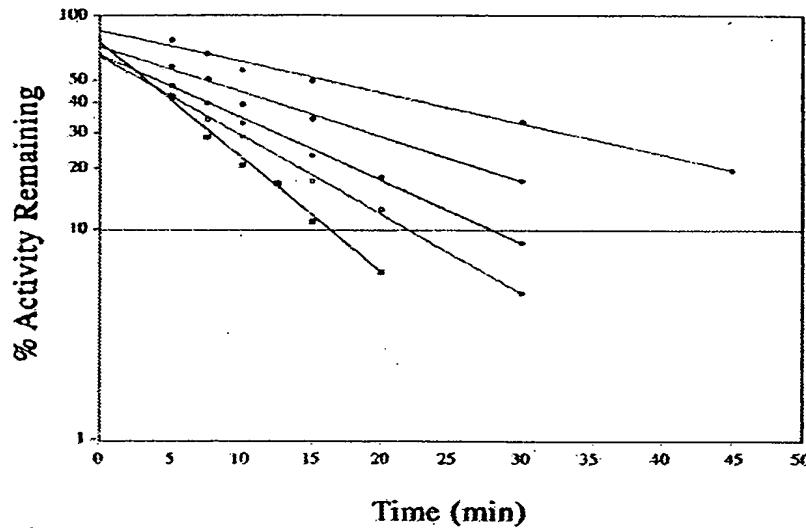
**FIGURE 12**

**A****B****C****D****FIGURE 13**



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A



B

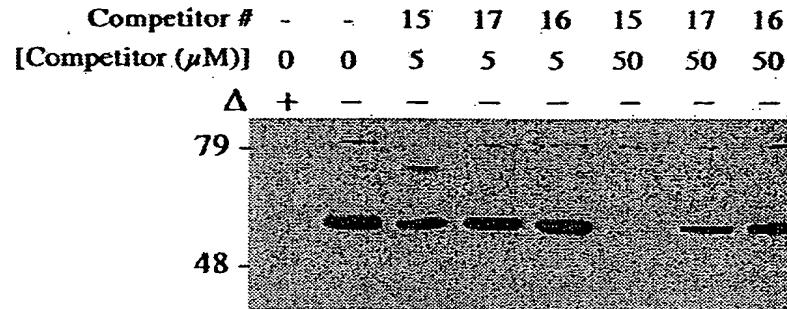
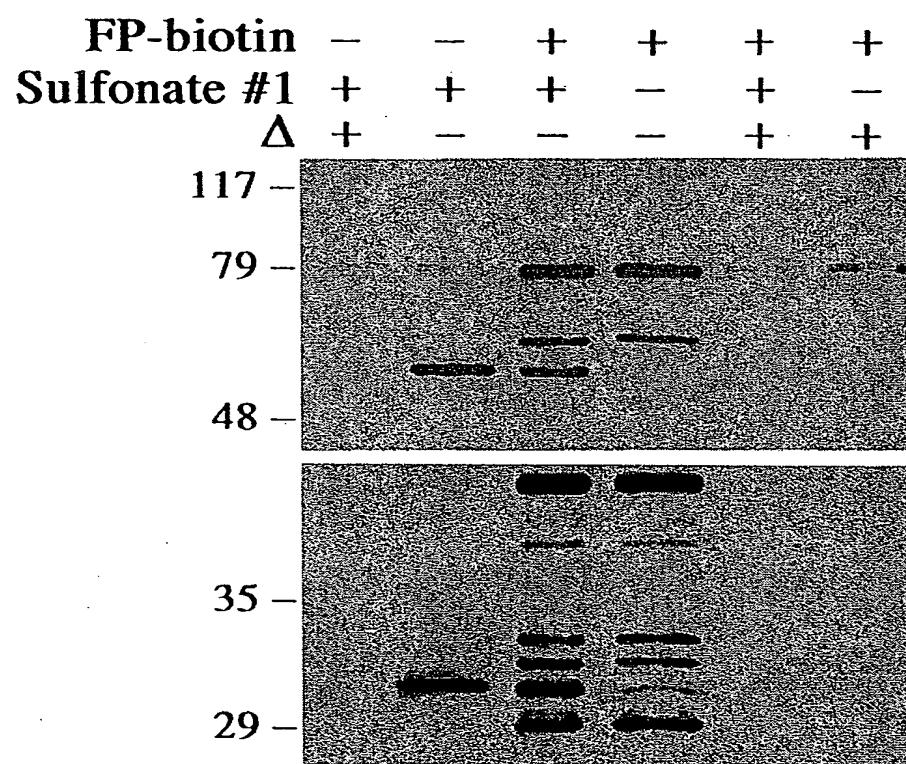


FIGURE 14



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**FIGURE 15**



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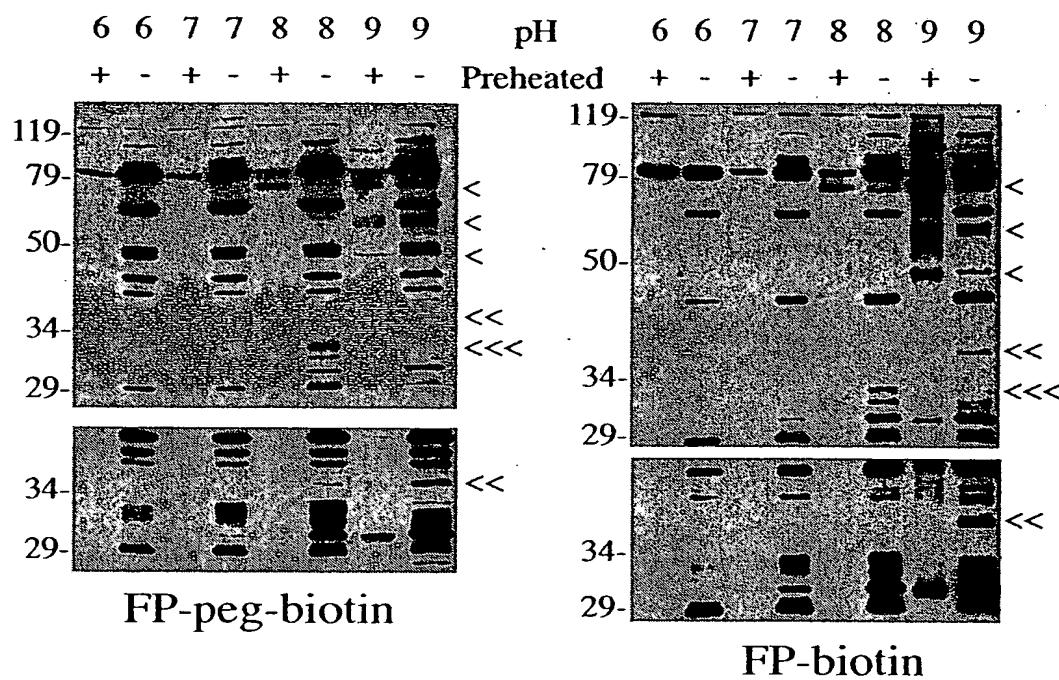
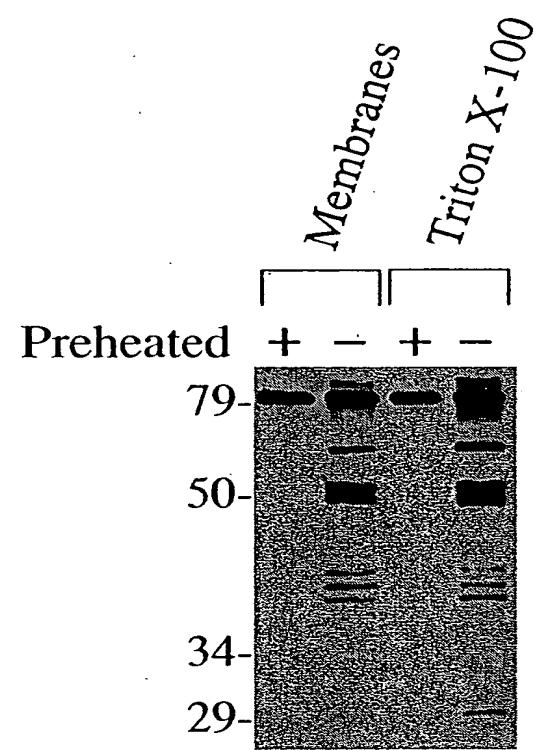


FIGURE 16



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**FIGURE 17**



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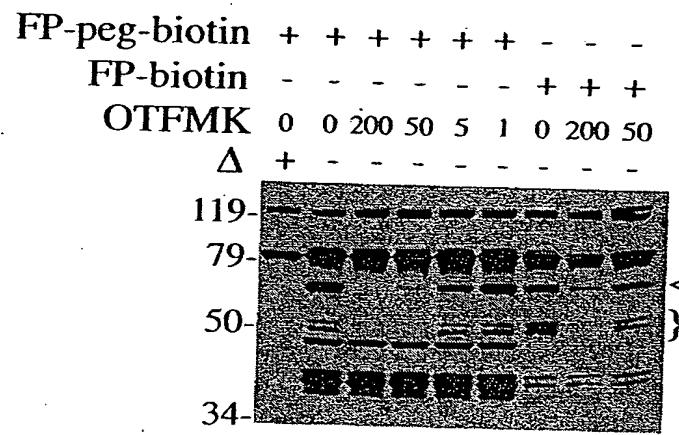


FIGURE 18



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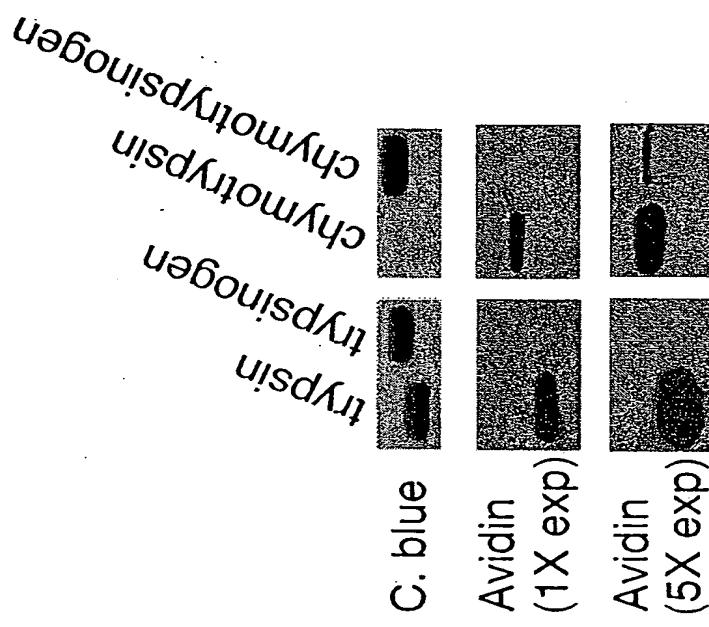
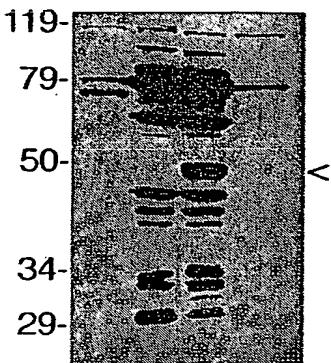


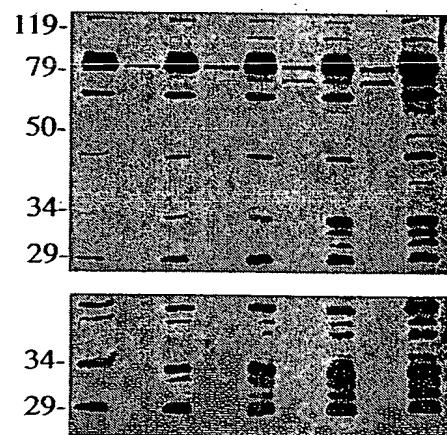
FIGURE 19

**A.**

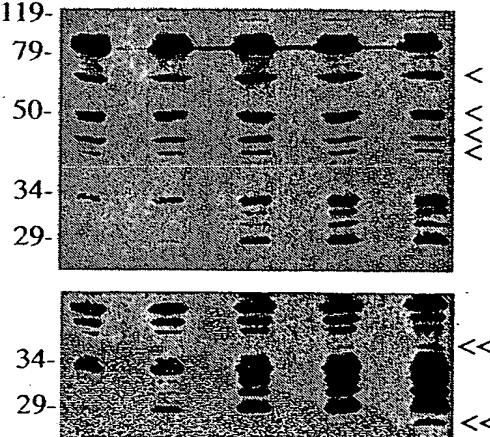
FP-peg-biotin	-	-	+	+
FP-biotin	+	+	-	-
Preheated	+	-	-	+

**B.**

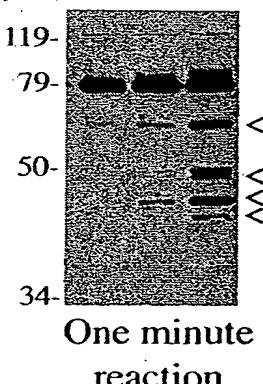
FP-biotin ( $\mu\text{M}$ )	0.5	1	1	2	2	4	4	8	8
Preheated	-	+	-	+	-	+	-	+	-

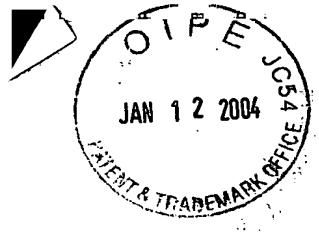
**C.**

FP-peg-biotin ( $\mu\text{M}$ )	0.5	1	1	2	2	4	4	8
Preheated	-	+	-	+	-	+	-	-

**D.**

FP-peg-biotin ( $\mu\text{M}$ )	1	2	8
Preheated	-	+	-

**FIGURE 20**



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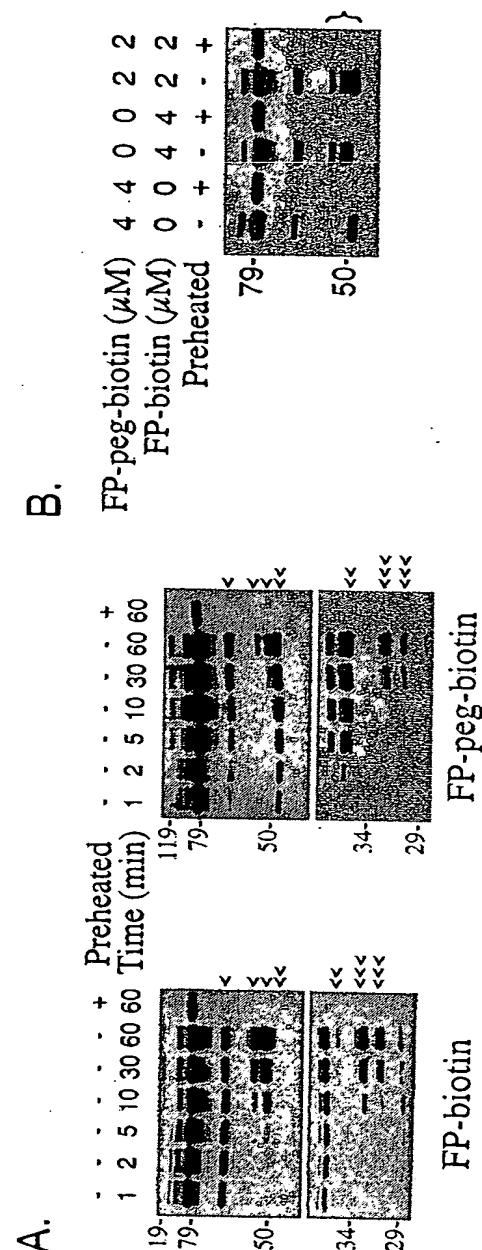


FIGURE 21



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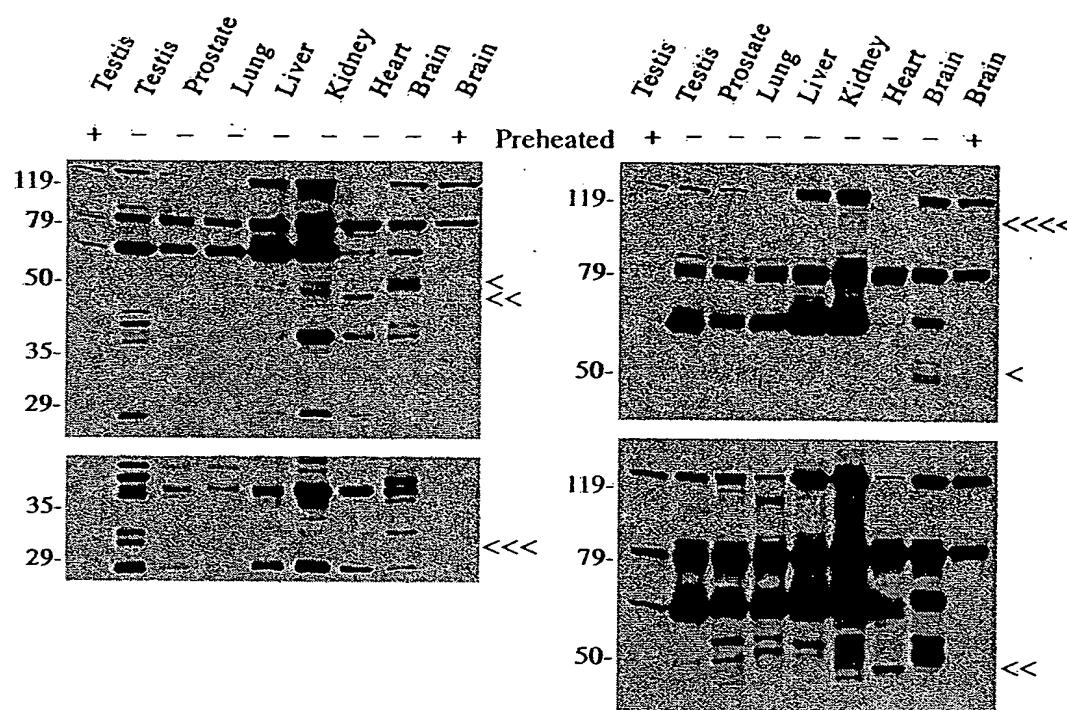
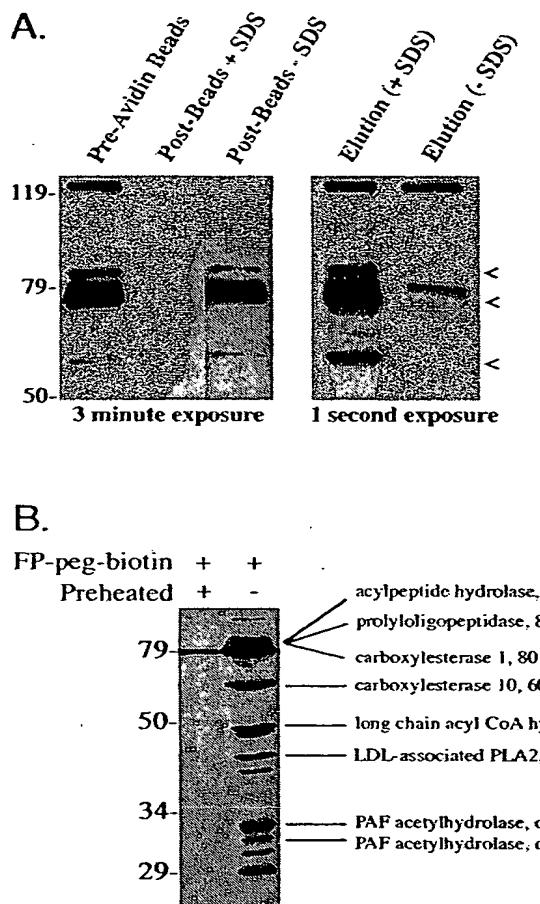


FIGURE 22



**FIGURE 23**